

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 25, 2004, 12:58:44 ; Search time 128 Seconds
(without alignments)

1305.152 Million cell updates/sec

Title: US-09-530-233-2

Perfect score: 2851

Sequence: 1 MKPTSGPEEARQPSDIRVF.....CAVTKLSASHRTCLVLTQL 531

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1297172 seqs, 314612898 residues

Total number of hits satisfying chosen parameters: 1297172

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2_6/ptodata/2/pubppaa/US07_PUBCOMB.pap.*
- 2: /cgn2_6/ptodata/2/pubppaa/PCT_NEW_PUB.pap.*
- 3: /cgn2_6/ptodata/2/pubppaa/US06_NEW_PUB.pap.*
- 4: /cgn2_6/ptodata/2/pubppaa/US06_PUBCOMB.pap.*
- 5: /cgn2_6/ptodata/2/pubppaa/US07_NEW_PUB.pap.*
- 6: /cgn2_6/ptodata/2/pubppaa/PCTUS_PUBCOMB.pap.*
- 7: /cgn2_6/ptodata/2/pubppaa/US08_NEW_PUB.pap.*
- 8: /cgn2_6/ptodata/2/pubppaa/US08_PUBCOMB.pap.*
- 9: /cgn2_6/ptodata/2/pubppaa/US09A_PUBCOMB.pap.*
- 10: /cgn2_6/ptodata/2/pubppaa/US09B_PUBCOMB.pap.*
- 11: /cgn2_6/ptodata/2/pubppaa/US09C_PUBCOMB.pap.*
- 12: /cgn2_6/ptodata/2/pubppaa/US09_NEW_PUB.pap.*
- 13: /cgn2_6/ptodata/2/pubppaa/US10A_PUBCOMB.pap.*
- 14: /cgn2_6/ptodata/2/pubppaa/US10B_PUBCOMB.pap.*
- 15: /cgn2_6/ptodata/2/pubppaa/US10C_PUBCOMB.pap.*
- 16: /cgn2_6/ptodata/2/pubppaa/US10_NEW_PUB.pap.*
- 17: /cgn2_6/ptodata/2/pubppaa/US60_NEW_PUB.pap.*
- 18: /cgn2_6/ptodata/2/pubppaa/US60_PUBCOMB.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2851	100.0	531	15	US-10-258-073-4
2	2833	99.4	531	14	US-10-345-680-56
3	2833	99.4	531	15	US-10-366-288-44
4	2706	94.9	549	9	US-09-983-204-6
5	2598	91.1	543	9	US-09-983-204-2
6	2481	87.0	518	9	US-09-983-204-4
7	2447	85.8	533	15	US-10-258-073-8
8	1369	48.0	512	15	US-10-258-073-6
9	1365	47.9	512	9	US-09-983-204-14
10	1365	47.9	512	15	US-10-258-073-2
11	1329	46.6	526	9	US-09-983-204-13
12	1321.5	46.4	514	12	US-10-092-900A-104
13	1180	41.4	539	10	US-09-772-180A-8
14	1180	41.4	539	15	US-10-295-027-290
15	1175	41.2	539	10	US-09-772-180A-2

16	1134.5	39.8	587	10	US-09-772-180A-4
17	407.5	14.3	669	9	US-09-983-204-15
18	407.5	14.3	669	12	US-10-133-573-4
19	407.5	14.3	669	13	US-10-133-157-4
20	407.5	14.3	669	14	US-10-097-340-278
21	407.5	14.3	669	15	US-10-373-801-28
22	407	14.3	669	14	US-10-097-340-280
23	373.5	13.1	640	12	US-10-133-573-5
24	373.5	13.1	640	13	US-10-133-157-5
25	371.5	13.0	640	9	US-09-983-204-16
26	350	12.3	649	12	US-10-133-573-6
27	350	12.3	649	13	US-10-133-157-6
28	347	12.2	64	15	US-10-258-073-20
29	344.5	12.1	515	9	US-09-983-204-19
30	341	12.0	649	9	US-09-983-204-17
31	335.5	11.8	150	9	US-09-860-670-108
32	335.5	11.8	150	15	US-10-227-646-108
33	328	11.5	103	10	US-09-772-180A-6
34	320.5	11.2	704	15	US-10-104-047-3501
35	315.5	11.1	638	9	US-09-983-204-18
36	315.5	11.1	638	12	US-10-133-573-8
37	315.5	11.1	638	13	US-10-133-157-8
38	249	8.7	46	15	US-10-258-073-26
39	243	8.5	374	15	US-10-104-047-3578
40	213	7.5	555	14	US-10-168-651-27
41	194	6.8	114	14	US-10-106-698-6921
42	193.5	6.8	907	15	US-10-369-493-6677
43	187	6.6	90	9	US-09-864-761-47039
44	156.5	5.5	96	9	US-09-864-761-47039
45	143.5	5.0	46	12	US-10-276-774-1604

ALIGNMENTS

RESULT 1

US-10-258-073-4
; Sequence 4, Application US/10258073
; Publication No. US20030219858A1
; GENERAL INFORMATION:
; APPLICANT: McGill University
; APPLICANT: Babineki, Kazimierz
; APPLICANT: Seguela, Philippe
; TITLE OF INVENTION: A NOVEL HETEROMULTIMERIC ION CHANNEL RECEPTOR AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: 0103.001-WO-US
; CURRENT APPLICATION NUMBER: US/10/258,073
; CURRENT FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: PCT/CA01/00561
; PRIOR FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: Patent in ver. 2.1
; SEQ ID NO 4
; LENGTH: 531
; TYPE: PRT
; ORGANISM: HUMAN ASIC3
US-10-258-073-4

Query Match	100.0%	Score	2851	DB	15	Length	531
Best Local Similarity	100.0%	Pred. No.	6.9e-254	Indels	0	Gaps	0
Mismatches	531	Conservative	0	Mismatches	0		
QY	1	MKPTSGPEEARQPSDIRVFASNC	SMHGLGHVFGPGLSLRRGMWAAA	AVVLSVATFLYQV	60		
DB	1	MKPTSGPEEARQPSDIRVFASNC	SMHGLGHVFGPGLSLRRGMWAAA	AVVLSVATFLYQV	60		
QY	61	AERYVYREPHHTALDERESHLV	FPVTLNINPLRSRLTPNDLHWAGS	ALLGLDPA	120		
DB	61	AERYVYREPHHTALDERESHLV	FPVTLNINPLRSRLTPNDLHWAGS	ALLGLDPA	120		
QY	121	EHAFLRALGRPPAPGFMPSPT	FDMAQLYARAGHSLDDMLDCRFRG	QPCGPNFTTIF	180		
DB	121	EHAFLRALGRPPAPGFMPSPT	FDMAQLYARAGHSLDDMLDCRFRG	QPCGPNFTTIF	180		

181 TRMGKCYTFNSGADGABELLTTTRGCMGNGLDMLDVQOEYLPWRDNEETPEVGIRVQ 240
181 TRMGKCYTFNSGADGABELLTTTRGCMGNGLDMLDVQOEYLPWRDNEETPEVGIRVQ 240
241 IHSQEEPPIDOLGLGVSPGYQTFVSCQQQLSFLPPWGDCCSSASLNPNYEPSPDPLG 300
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301 SPSPSPSPPYTLGCRCLACETRYVARKCGRMVMPGDVPCVSPQOYKNCAPDAIDAILR 360
301 SPSPSPSPPYTLGCRCLACETRYVARKCGRMVMPGDVPCVSPQOYKNCAPDAIDAILR 360
361 KDSACACNPACSTRYAKELSMWRIPSRARAFRLARKLNSEAYIAENVLALDIFFEALNY 420
361 KDSACACNPACSTRYAKELSMWRIPSRARAFRLARKLNSEAYIAENVLALDIFFEALNY 420
421 ETVEQKAYEMSELLGIGQMGLFGASLLTILEILDVLCVFRDKVLYGFWMRQHSOR 480
421 ETVEQKAYEMSELLGIGQMGLFGASLLTILEILDVLCVFRDKVLYGFWMRQHSOR 480
481 HSSTNLLQEGLSHRTQVPHLSLGRPPPTPPCAVTTLSASHRTCYLVTLQ 531
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RESULT 2
US-10-345-680-56
; Sequence 56, Application US/10345680
; Publication No. US20030148394A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Silos-Santiago, Imaculada
; APPLICANT: Venkateswarlu, Karicheti
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 1435, 559, 34021, 44099, 25278,
; TITLE OF INVENTION: 641, 260, 55089, 21407, 42032, 46656, 62553, 302, 323,
; TITLE OF INVENTION: 12303, 985, 13237, 13601, 18926, 318, 2058 OR 6351 MOLECULES.
; FILE REFERENCE: MPI02-012PIRNM OWN
; CURRENT APPLICATION NUMBER: US/10/345,680
; CURRENT FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: US 60/349,511
; PRIOR FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US 60/360,500
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/365,041
; PRIOR FILING DATE: 2002-03-15
; PRIOR APPLICATION NUMBER: US 60/374,063
; PRIOR FILING DATE: 2002-04-19
; PRIOR APPLICATION NUMBER: US 60/403,468
; PRIOR FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: US 60/414,262
; PRIOR FILING DATE: 2002-09-27
; PRIOR APPLICATION NUMBER: US 60/419,986
; PRIOR FILING DATE: 2002-10-21
; PRIOR APPLICATION NUMBER: US 60/423,809
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: US 60/429,797
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 66
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 56
; LENGTH: 531
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-345-680-56

Query Match 99.4%; Score 2833; DB 14; Length 531;
Best Local Similarity 99.2%; Pred. No. 3.2e-252;
Matches 527; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

1 MKPTSGPEARRQPSDIRVFPASNCMSHGLGHVFGPGLSLRRGMWAAAVLVSATFLYQV 60
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1 MKPTSGPEARRQPSDIRVFPASNCMSHGLGHVFGPGLSLRRGMWAAAVLVSATFLYQV 60
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121 EHAFAFLRALGPRPAPPFGMPSPPTFDMALQVARAGHSDDMLDCRPSGQCGPENFTTIF 180
121 EHAFAFLRALGPRPAPPFGMPSPPTFDMALQVARAGHSDDMLDCRFRGQCGPENFTTIF 180
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301 SPSPSPSPPYTLGCRCLACETRYVARKCGRMVMPGDVPCVSPQOYKNCAPDAIDAILR 360
301 SPSPSPSPPYTLGCRCLACETRYVARKCGRMVMPGDVPCVSPQOYKNCAPDAIDAILR 360
361 KDSACACNPACSTRYAKELSMWRIPSRARAFRLARKLNSEAYIAENVLALDIFFEALNY 420
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421 ETVEQKAYEMSELLGIGQMGLFGASLLTILEILDVLCVFRDKVLYGFWMRQHSOR 480
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481 HSSTNLLQEGLSHRTQVPHLSLGRPPPTPPCAVTTLSASHRTCYLVTLQ 531
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RESULT 3
US-10-366-288-44
; Sequence 44, Application US/10366288
; Publication No. US20030216288A1
; GENERAL INFORMATION:
; APPLICANT: Powell, Douglas
; APPLICANT: Weich, Nadine S.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: AIDS AND HIV-RELATED DISORDERS USING 1414, 1481, 1553,
; TITLE OF INVENTION: 34021, 1720, 1683, 1552, 1682, 1675, 12825, 9552, 5816,
; TITLE OF INVENTION: 10002, 1611, 1371, 14324, 126, 270, 312, 167, 326, 18926,
; FILE REFERENCE: MPI02-025PIRNMNTM
; CURRENT APPLICATION NUMBER: US/10/366,288
; CURRENT FILING DATE: 2003-02-13
; PRIOR APPLICATION NUMBER: 60/357,391
; PRIOR FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: 60/380,249
; PRIOR FILING DATE: 2002-05-13
; PRIOR APPLICATION NUMBER: 60/391,306
; PRIOR FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: 60/406,297
; PRIOR FILING DATE: 2002-08-27
; PRIOR APPLICATION NUMBER: 60/412,007
; PRIOR FILING DATE: 2002-09-19
; PRIOR APPLICATION NUMBER: 60/417,508
; PRIOR FILING DATE: 2002-10-10
; PRIOR APPLICATION NUMBER: 60/432,318
; PRIOR FILING DATE: 2002-12-10
; NUMBER OF SEQ ID NOS: 52
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 44
; LENGTH: 531
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-366-288-44

Query Match 99.4%; Score 2833; DB 15; Length 531;

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Best Local Similarity 99.2%; Pred. No. 3.2e-252;
Matches 527; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

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DB 61 AERVYRYREPHHOTALDERESHRLVFPVAVTLGNINPLRRSRLTPNDLHWAGSALLGLDPA 120
QY 121 EHAFLRALGRPPAPPGFMPSPTFDMAQLYARAGHSLLDMLDCFRGQPCGPFNTTIF 180
DB 121 EHAFLRALGRPPAPPGFMPSPTFDMAQLYARAGHSLLDMLDCFRGQPCGPFNTTIF 180
QY 181 TRMGKCVTFNSGADGAEELLTTTRGGMGNGLDIMLVQOQEYILPVWRDNEETPFVVGIRVQ 240
DB 181 TRMGKCVTFNSGADGAEELLTTTRGGMGNGLDIMLVQOQEYILPVWRDNEETPFVVGIRVQ 240
QY 241 IHSQEEPPIDQLGLGVSPGYQTFVSCQOQQLSFLPPWGDCCSSASLNPNYEPESDPLG 300
DB 241 IHSQEEPPIDQLGLGVSPGYQTFVSCQOQQLSFLPPWGDCCSSASLNPNYEPESDPLG 300
QY 301 SPSPSPSPPYTLMGCRACETRYVARKCGCRVMYMGDPVPCSPQOYKNCAPDAIDALR 360
DB 301 SPSPSPSPPYTLMGCRACETRYVARKCGCRVMYMGDPVPCSPQOYKNCAPDAIDALR 360
QY 361 KDSACACNPASTRYAKELSMVRIPSRAARFLARKLNSEAYIAENVLALDIPFEALNY 420
DB 361 KDSACACNPASTRYAKELSMVRIPSRAARFLARKLNSEAYIAENVLALDIPFEALNY 420
QY 421 ETVEQKAYEMSELLDGGQMGFLTGASLLTILDLCEVFRDKVLGYFWRNQHRSQR 480
DB 421 ETVEQKAYEMSELLDGGQMGFLTGASLLTILDLCEVFRDKVLGYFWRNQHRSQR 480
QY 481 HSTNLLQEGLSHRTQVPHLSGPRPTPCAVTKTLSASHTCYLVTLQ 531
DB 481 HSTNLLQEGLSHRTQVPHLSGPRPTPCAVTKTLSASHTCYLVTLQ 531

RESULT 4
US-09-983-204-6
; Sequence 6, Application US/09983204
; Patent No. US20020173000A1
; GENERAL INFORMATION:
; APPLICANT: RENARD, STEPHANE
; APPLICANT: BESNARD, FRANCOIS
; TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR
; FILE REFERENCE: 07586.0010
; CURRENT FILING DATE: 2001-10-23
; PRIOR FILING DATE: 2001-02-22
; PRIOR FILING DATE: 2001-02-22
; PRIOR FILING DATE: 1998-05-15
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 549
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-983-204-6

Query Match
Best Local Similarity 94.9%; Score 2706; DB 9; Length 549;
Matches 517; Conservative 3; Mismatches 14; Indels 15; Gaps 2;

QY 1 MKPTSGPEARRQPSDIRVFASNCMHGLGHVFGPGSLSLRRGMWAAAVALVSVATFLYQV 60
DB 1 MKPTSGPEARRQPSDIRVFASNCMHGLGHVFGPGSLSLRRGMWAAAVALVSVATFLYQV 60

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QY 61 AERVYRYREPHHOTALDERESHRLVFPVAVTLGNINPLRRSRLTPNDLHWAGSALLGLDPA 120
DB 61 AERVYRYREPHHOTALDERESHRLVFPVAVTLGNINPLRRSRLTPNDLHWAGSALLGLDPA 120
QY 121 EHAFLRALGRPPAPPGFMPSPTFDMAQLYARAGHSLLDMLDCFRGQPCGPFNTTIF 180
DB 121 EHAFLRALGRPPAPPGFMPSPTFDMAQLYARAGHSLLDMLDCFRGQPCGPFNTTIF 180
QY 181 TRMGKCVTFNSGADGAEELLTTTRGGMGNGLDIMLVQOQEYILPVWRDNEETPFVVGIRVQ 240
DB 181 TRMGKCVTFNSGADGAEELLTTTRGGMGNGLDIMLVQOQEYILPVWRDNEETPFVVGIRVQ 240
QY 241 IHSQEEPPIDQLGLGVSPGYQTFVSCQOQQLSFLPPWGDCCSSASLNPNYEPESDPLG 300
DB 241 IHSQEEPPIDQLGLGVSPGYQTFVSCQOQQLSFLPPWGDCCSSASLNPNYEPESDPLG 300
QY 301 SPSPSPSPPYTLMGCRACETRYVARKCGCRVMYMGDPVPCSPQOYKNCAPDAIDALR 360
DB 301 SPSPSPSPPYTLMGCRACETRYVARKCGCRVMYMGDPVPCSPQOYKNCAPDAIDALR 360
QY 361 KDSACACNPASTRYAKELSMVRIPSRAARFLARKLNSEAYIAENVLALDIPFEALNY 420
DB 361 KDSACACNPASTRYAKELSMVRIPSRAARFLARKLNSEAYIAENVLALDIPFEALNY 420
QY 421 ETVEQKAYEMSELLDGGQMGFLTGASLLTILDLCEVFRDKVLGYFWRNQHRSQR 480
DB 421 ETVEQKAYEMSELLDGGQMGFLTGASLLTILDLCEVFRDKVLGYFWRNQHRSQR 480
QY 481 HSTNLLQEGLSHRTQVPHLSGPRPTPCAVTKTLSASHTCYLVTLQ 524
DB 481 HSTNLLQEGLSHRTQVPHLSGPRPTPCAVTKTLSASHTCYLVTLQ 524
QY 525 CYLV 528
DB 541 AVCV 544

RESULT 5
US-09-983-204-2
; Sequence 2, Application US/09983204
; Patent No. US20020173000A1
; GENERAL INFORMATION:
; APPLICANT: RENARD, STEPHANE
; APPLICANT: BESNARD, FRANCOIS
; TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR
; FILE REFERENCE: 07586.0010
; CURRENT FILING DATE: 2001-10-23
; PRIOR FILING DATE: 2001-02-22
; PRIOR FILING DATE: 2001-02-22
; PRIOR FILING DATE: 1998-05-15
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 543
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-983-204-2

Query Match
Best Local Similarity 91.1%; Score 2598; DB 9; Length 543;
Matches 491; Conservative 4; Mismatches 12; Indels 16; Gaps 3;

QY 1 MKPTSGPEARRQPSDIRVFASNCMHGLGHVFGPGSLSLRRGMWAAAVALVSVATFLYQV 60
DB 1 MKPTSGPEARRQPSDIRVFASNCMHGLGHVFGPGSLSLRRGMWAAAVALVSVATFLYQV 60
QY 61 AERVYRYREPHHOTALDERESHRLVFPVAVTLGNINPLRRSRLTPNDLHWAGSALLGLDPA 120

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Db 61 AERVRYREPHQTALDERESHRLIPAVTLNINPLRRSRLTPNDLHWAGSALLGLDPA 120
Qy 121 EHAFLBALRPPAPPGFMSPTFDMAQLYARAGHSLDDMLDCRFRGQCPGPNFTTIF 180
Db 121 EHAFLBALRPPAPPGFMSPTFDMAQLYARAGHSLDDMLDCRFRGQCPGPNFTTIF 180
Qy 181 TRMGKCYTFNSGADGABELLTTTRGGMGNGLDMLDVQOBEYLPVWRDNEETFEVGIRVQ 240
Db 181 TRMGKCYTFNSGADGABELLTTTRGGMGNGLDMLDVQOBEYLPVWRDNEETFEVGIRVQ 240
Qy 241 IHSQEEPIIDQLGLGVSPGYQTFVSCQOQQLSFLPPWGDCCSSASLNPNYEPSPDPLG 300
Db 241 IHSQEEPIIDQLGLGVSPGYQTFVSCQOQQLSFLPPWGDCCSSASLNPNYEPSPDPLG 300
Qy 301 SPSPSPSPPTLMGCRCLACETRVARCKGRVMYMPGDVPCSPQOYKNCAPHAIDAILR 360
Db 301 SPSPSPSPPTLMGCRCLACETRVARCKGRVMYMPGDVPCSPQOYKNCAPHAIDAILR 360
Qy 361 KDSACPNPCASTRYAKELSMWRIPSRARAAFLARKLNSEYIAENVLALDIFFEALNY 420
Db 361 KDSACPNPCASTRYAKELSMWRIPSRARAAFLARKLNSEYIAENVLALDIFFEALNY 420
Qy 421 ETVEQKAYEMSELLDGIQGMGLFISLITLILDLCEVFRDKVLGYFWRNQHRSOR 480
Db 421 ETVEQKAYEMSELLDGIQGMGLFISLITLILDLCEVFRDKVLGYFWRNQHRSOR 480
Qy 481 HSTNLLQF-GLGSHRTQV---PHL-----SLGPRP 507
Db 481 HSTNLLQF-GLGSHRTQV---PHL-----SLGPRP 507
Db 481 HSTNLLQF-GLGSHRTQV---PHL-----SLGPRP 507
Db 481 HSTNLLQF-GLGSHRTQV---PHL-----SLGPRP 507

RESULT 6

US-09-983-204-4
; Sequence 4, Application US/09983204
; Patent No. US2002017300A1
; GENERAL INFORMATION:
; APPLICANT: RENARD, STEPHANE
; APPLICANT: BESNARD, FRANCOIS
; APPLICANT: GRAHAM, DAVID
; TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR
; FILE REFERENCE: 07596.0010
; CURRENT APPLICATION NUMBER: US/09/983,204
; PRIOR FILING DATE: 2001-10-23
; PRIOR APPLICATION NUMBER: 09/424,666
; PRIOR FILING DATE: 2001-02-22
; PRIOR APPLICATION NUMBER: PCT/EP98/02884
; PRIOR FILING DATE: 1998-05-15
; PRIOR FILING DATE: 1997-05-30
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 518
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-983-204-4

Query Match 87.0%; Score 2481; DB 9; Length 518;
Best Local Similarity 94.0%; Pred. No. 9.1e-220;
Matches 468; Conservative 4; Mismatches 10; Indels 16; Gaps 3;
Qy 26 MHGLHVFPGSLSLRGMWAAAVLVSVATLYQVAERVRYRFFHQTALDERESHRLV 85
Db 1 MEGLHVFPGSLSLRGMWAAAVLVSVATLYQVAERVRYRFFHQTALDERESHRLV 60
Qy 86 FPVATLNCINPLRRSRLTPNDLHWAGSALLGLDPAEHAFLALGRPPAPPGFMSPTFD 145
Db 61 FPVATLNCINPLRRSRLTPNDLHWAGSALLGLDPAEHAFLALGRPPAPPGFMSPTFD 120
Qy 146 MAQLYARAGHSLDDMLDCRFRGQCPGPNFTTIFTRMGKCYTFNSGADGABELLTTTRGG 205
Db 121 MAQLYARAGHSLDDMLDCRFRGQCPGPNFTTIFTRMGKCYTFNSGADGABELLTTTRGG 180

Qy 206 MNGGLDMLDVQOBEYLPVWRDNEETFEVGIRVQIHSQEEPIIDQLGLGVSPGYQTFV 265
Db 181 MNGGLDMLDVQOBEYLPVWRDNEETFEVGIRVQIHSQEEPIIDQLGLGVSPGYQTFV 240
Qy 266 SCQOQQLSFLPPWGDCCSSASLNPNYEPSPDPLGSPSPSPPTLMGCRCLACETRIVA 325
Db 241 SCQOQQLSFLPPWGDCCSSASLNPNYEPSPDPLGSPSPSPPTLMGCRCLACETRIVA 300
Qy 326 RKCCRMVYMPGDVPCSPQOYKNCAPHAIDAILRKDSCACPNPCASTRYAKELSMWRIP 385
Db 301 RKCCRMVYMPGDVPCSPQOYKNCAPHAIDAILRKDSCACPNPCASTRYAKELSMWRIP 360
Qy 386 SRAARFLARKLNSEYIAENVLALDIFFEALNYETVEQKAYEMSELLDGIQGMGLF 445
Db 361 SRAARFLARKLNSEYIAENVLALDIFFEALNYETVEQKAYEMSELLDGIQGMGLF 420
Qy 446 IGASLLTILEILDYLCVFRDKVLGYFWRNQHRSORHSSNLLQF-GLGSHRTQV---PHL 501
Db 421 IGASLLTILEILDYLCVFRDKVLGYFWRNQHRSORHSSNLLQF-GLGSHRTQV---PHL 480
Qy 502 -----SLGPRP 507
Db 481 LPCHTALDILLSVSSEPRP 498

RESULT 7

US-10-258-073-8
; Sequence 8, Application US/10258073
; Publication No. US20030219858A1
; GENERAL INFORMATION:
; APPLICANT: McGill University
; APPLICANT: Babinski, Kazimierz
; APPLICANT: Sequela, Philippe
; TITLE OF INVENTION: A NOVEL HETEROMULTIMERIC ION CHANNEL RECEPTOR AND USES
; FILE REFERENCE: 0103.001-WO-US
; CURRENT APPLICATION NUMBER: US/10/258,073
; PRIOR FILING DATE: 2001-04-20
; PRIOR APPLICATION NUMBER: PCT/CA01/00561
; PRIOR FILING DATE: 2000-04-20
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 533
; TYPE: PRT
; ORGANISM: RAT ASIC2A
US-10-258-073-8

Query Match 85.8%; Score 2447; DB 15; Length 533;
Best Local Similarity 83.5%; Pred. No. 1.3e-216;
Matches 445; Conservative 49; Mismatches 37; Indels 2; Gaps 2;
Qy 1 MKPTSGPEEA-RRQPSDIRVPASNCMEGLGHVFGPSLSLRGMWAAAVLVSVATLYQ 59
Db 1 MKPRSGLEAQRQASDIRVPASNCMEGLGHVFGPSLSLRGMWAAAVLVSVATLYQ 60
Qy 60 VAERVRYRFFHQTALDERESHRLVFPVATLNCINPLRRSRLTPNDLHWAGSALLGLDPA 119
Db 61 VAERVRYRFFHQTALDERESHRLVFPVATLNCINPLRRSRLTPNDLHWAGSALLGLDPA 120
Qy 120 ASHAFLALGRPPAPPGFMSPTFDMAQLYARAGHSLDDMLDCRFRGQCPGPNFTTIF 179
Db 121 ASHAFLALGRPPAPPGFMSPTFDMAQLYARAGHSLDDMLDCRFRGQCPGPNFTTIF 180
Qy 180 FTRMGKCYTFNSGADGABELLTTTRGGMGNGLDMLDVQOBEYLPVWRDNEETFEVGIRV 239
Db 181 FTRMGKCYTFNSGADGABELLTTTRGGMGNGLDMLDVQOBEYLPVWRDNEETFEVGIRV 240
Qy 240 QIHSQEEPIIDQLGLGVSPGYQTFVSCQOQQLSFLPPWGDCCSSASLNPNYEPSPDPLG 298
Db 241 QIHSQEEPIIDQLGLGVSPGYQTFVSCQOQQLSFLPPWGDCCSSASLNPNYEPSPDPLG 300

DB 471 DEGSHDENVSTCDTNPNSHSETISH 494

RESULT 10

US-10-258-073-2

Sequence 2, Application US/10258073

Publication No. US20030219858A1

GENERAL INFORMATION:

APPLICANT: McGill University

APPLICANT: Babinski, Kazimierz

APPLICANT: Seguela, Philippe

TITLE OF INVENTION: A NOVEL HETEROMULTIMERIC ION CHANNEL RECEPTOR AND USES

TITLE OF INVENTION: THEREOF

FILE REFERENCE: 0103.001-WO-US

CURRENT APPLICATION NUMBER: US/10/258,073

CURRENT FILING DATE: 2001-04-20

PRIOR APPLICATION NUMBER: PCT/CA01/00561

PRIOR FILING DATE: 2000-04-20

NUMBER OF SEQ ID NOS: 28

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 2

LENGTH: 512

TYPE: PRT

ORGANISM: HUMAN ASIC2A

US-10-258-073-2

Query Match 47.9%; Score 1365; DB 15; Length 512;

Best Local Similarity 50.6%; Pred. No. 8.3e-117; Indels 26; Gaps 5;

Matches 255; Conservative 83; Mismatches 140;

QY 7 PSEARRQPSDIRVFASNCMHGVLGHVFGPGLSLRRGMWAAAVLSVATFLYQVAERVY 66

DB 7 PSEGLSQPSSIOIFANTSTLGHIRHIFVYGLTIRRLVLAFAVFGSLGLLLVSESRVSY 66

QY 67 YREFHHOTALDERESHRLVFPVATLNCINPLNPLRSRLTPNDLHWAGSALLGLD-----PAE 121

DB 67 YFSYQHVTKVDEVAQSLVFPVATLNCINLNGFRFRSLRTNDLYHAGELLALLDVLNLQIPDP 126

QY 122 HAA---FLRALGRPPAPGFPSPFTDMAQLYARAGHSLDMLDLCFRGQPCGPNFTT 178

DB 127 HLA DPSVLEALRQKANKFKYKPK-QFSMLEFLHVRGHDLDKDMLYCKFKQECGHDFTT 185

QY 179 IETRGKCYTFNSGADGAEHLTTTRCGMGNGLDMLDVQEEYLPVWRDNEETPFEVGR 238

DB 186 VFTKYGKCMFNSGSDGKPLTTVKGGTGNGLEIMLDIQDDEYLPFWGETEETTFEAGVK 245

QY 239 VOIHSQEEPPPIIDQLGLGVSPGYQTFVSCQQOQLSFLPPWPGDCSSASLNPNYEPSPDP 298

DB 246 VOIHSQSEPPFQELGFGVAGFGFTVATQQRILTYLPFWGECRSSEMGDLF-----298

QY 299 LQSPSPSPSPPTLMGCRACETRYVARKCGCRVMYMPGVPCSPQOYKNCAPHAIDAI 358

DB 299 -----FPVYSITACRIDCETRYIVENCNCRVMHMPGDAPFCTPEQHKCEAPALGLL 350

QY 359 LRKDS--CACPNPCASTRYAKELSMVRIPSAARAFELARKNSRAYIAENVLADIPPE 416

DB 351 AEKDSNYCLRTPCNLTRYKELSNWKIPKTSAXYLEKFKNSKEXIYSENILVLDFE 410

QY 417 ALNYETVEQKAYEMSELLDIGQMGFLTGASLLTILEILDYLCVEFRDKVLYGFWPNRQ 476

DB 411 ALNYETIBQKAYEVAALLDIGQMGFLTGASLLTILEILDYLCVEFRDKVLYGFWPNRQ 470

QY 477 HSQRHSSTNLQELGSHRTOVPH 500

DB 471 DEGSHDENVSTCDTNPNSHSETISH 494

RESULT 11

US-09-983-204-13

Sequence 13, Application US/09983204

Patent No. US20020173000A1

GENERAL INFORMATION:

APPLICANT: Padigaru, Muralidhara

APPLICANT: Spytek, Kimberly A.

APPLICANT: Shenoy, Suresh G.

APPLICANT: Taupier Jr., Raymond J.

APPLICANT: RENARD, STEPHANE

APPLICANT: BESNARD, FRANCOIS

APPLICANT: GRAHAM, DAVID

TITLE OF INVENTION: SODIUM CHANNEL RECEPTOR

FILE REFERENCE: 07586.0010

CURRENT APPLICATION NUMBER: US/09/983,204

CURRENT FILING DATE: 2001-10-23

PRIOR APPLICATION NUMBER: 09/424,666

PRIOR FILING DATE: 2001-02-22

PRIOR APPLICATION NUMBER: PCT/EP98/02884

PRIOR FILING DATE: 1998-05-15

PRIOR APPLICATION NUMBER: 97401196.7

PRIOR FILING DATE: 1997-05-30

NUMBER OF SEQ ID NOS: 19

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 13

LENGTH: 526

TYPE: PRT

ORGANISM: Rattus norvegicus

FEATURE:

OTHER INFORMATION: ASIC

US-09-983-204-13

Query Match 46.6%; Score 1329; DB 9; Length 526;

Best Local Similarity 49.5%; Pred. No. 1.8e-113; Indels 56; Gaps 8;

Matches 257; Conservative 79; Mismatches 127;

QY 13 QPSDIRVFASNCMHGVLGHVFGPGLSLRRGMWAAAVLSVATFLYQVAERVYREFHH 72

DB 14 QPVSIOAFASSTLHGLAHIFSYERLSKRALWALCFLGLSLAVLLCVCTERVQYVFCYHH 73

QY 73 QTALDERESHRLVFPVATLNCINPLNPLRSRLTPNDLHWAGS--ALLG-----116

DB 74 VTKLDEVAASQSLTPVATLNCINLNEFRFSQVSKNDLTHAGELLALLNNRYEIPDTQMADEK 133

QY 117 -LDPAAHAAFLRALGRPPAPGFPSPFTDMAQLYARAGHSLDMLDLCFRGQPCGPN 175

DB 134 QLEILQDKANFRS-----FKPKP-FNMFYDRAGHDIRDMLLSCHFRGEACSAED 183

QY 176 FTTTFTMGKCYTFNSGADGAEHLTTTRCGMGNGLDMLDVQEEYLPVWRDNEETPFEV 235

DB 184 PKVFTTRYKCYTFNSGQGRPELTKMGGTGNGLEIMLDIQDDEYLPFWGETDTSFEA 243

QY 236 GIRVOIHSQEEPPPIIDQLGLGVSPGYQTFVSCQQOQLSFLPPWPGDCSSASLNPNYEP 295

DB 244 GIKVOIHSQDEPPFIIDQLGFGVAPGFTVSCQEQRLIYLPFWGTCNAVTWDSDF----299

QY 296 SDPLGSPSPSPPTLMGCRACETRYVARKCGCRVMYMPGVPCSPQOYKNCAPHAIPAI 355

DB 300 -----FDSYSITACRIDCETRYIVENCNCRVMHMPGDAPYCTPEQYKECADPAL 348

QY 356 DALIRKDS--CACPNPCASTRYAKELSMVRIPSAARAFELARKNSRAYIAENVLADI 413

DB 349 DFLVEKDQECVCEMPCNLTRYKELSNWKIPKTSAXYKAKYLFKFKNSBOYIGENILVLDI 408

QY 414 FFALNYETVEQKAYEMSELLDIGQMGFLTGASLLTILEILDYLCVEFRDKVLYGFW 473

DB 409 FFEVLNYETTEQKAYEIAAGLLDIGQMGFLTGASLLTILEILDYLCVEFRDKVLYGFW 473

QY 474 NRQHSQRHSSTNLQELGSHRTOVPHLSLGRPPPTPPC 512

DB 465 RRCQCKEAKRSADKGA-----LSLDDVKRHNP 495

APPLICANT: Pena, Carol E.A.
APPLICANT: Li, Li
APPLICANT: Zerkhusen, Bryan D.
APPLICANT: Gusev, Vladimir Y.
APPLICANT: Ji, Weizhen
APPLICANT: Gorman, Linda
APPLICANT: Miller, Charles E.
APPLICANT: Kekuda, Ramesh
APPLICANT: Patturajan, Meera
APPLICANT: Gangoli, Esha A.
APPLICANT: Vernet, Corine A.M.
APPLICANT: Guo, Xiaojia Sasha
APPLICANT: Tchernov, Velizar T.
APPLICANT: Fernandes, Elma R.
APPLICANT: Casman, Stacie J.
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APPLICANT: Liu, Yi
APPLICANT: Anderson, David W.
APPLICANT: Spaderna, Steven K.
APPLICANT: Catterton, Elina
APPLICANT: Leite, Mario W.
APPLICANT: Zhong, Haihong
APPLICANT: Alsobrook, John P.
APPLICANT: Lepley, Denise M.
APPLICANT: Rieger, Daniel K.
APPLICANT: Burgess, Catherine E.
TITLE OF INVENTION: No. US2004043382A1el Proteins and Nucleic Acids Encoding Same
FILE REFERENCE: 21402-290C
CURRENT APPLICATION NUMBER: US/10/092,900A
CURRENT FILING DATE: 2002-03-07
PRIOR APPLICATION NUMBER: USN 60/274,322
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: USN 60/283,675
PRIOR FILING DATE: 2001-04-13
PRIOR APPLICATION NUMBER: USN 60/338,092
PRIOR FILING DATE: 2001-12-03
PRIOR APPLICATION NUMBER: USN 60/274,281
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: USN 60/274,191
PRIOR FILING DATE: 2001-03-08
PRIOR APPLICATION NUMBER: USN 60/325,681
PRIOR FILING DATE: 2001-09-27
PRIOR APPLICATION NUMBER: USN 60/304,354
PRIOR FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: USN 60/279,995
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: USN 60/294,899
PRIOR FILING DATE: 2001-05-31
PRIOR APPLICATION NUMBER: USN 60/287,424
PRIOR FILING DATE: 2001-04-30
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 768
SEQ ID NO 104
LENGTH: 514
TYPE: PRT
ORGANISM: Homo sapiens
US-10-092-900A-104

Query Match: 46.4%; Score 1321.5; DB 12; Length 514;
Best Local Similarity 53.9%; Pred. No. 8.7e-113; Mismatches 110; Indels 23; Gaps 6;
Matches 244; Conservative 76;
QY 13 QPSDIRVFASNCNMHGLGHVFGSGSLRRGMWAAAVLSVATFLYQVAERVYRYPFH 72
DB 14 QPDLVAFANSCUHLGTHNHFVEGGPGPROVLWAVAFVLAALGAFGLQGVDRVAYLSVPH 73
QY 73 QVALDERESHRLVPAVTLNINPLRSLTNDLHWAGSALIGLDPAAEHAFLRALGRP 132
DB 74 VTLNEVATTELAEPAVTLNINPLRSLTNDLHWAGSALIGLDPAAEHAFLRALGRP 129
QY 133 PAPPGFMPSPTFDMAQLYARAGHSLDDMLDCRFQPCGPNFTTIFTRMKCYTFNSG 192

Db 130 PGPEAFSGEP-FNLHRYNRSCHRLDMLLYCSYQGGPCGPHNFVWTRKYCKYTFNSG 188
QY 193 ADGAELITTRGCMGNGLDMLDVQOEYLPVWRNEETPFVGVIRVQIHSQEPPIIDQ 252
Db 189 RDGRPLKTKMGCTGNGLBILMDIQDEYLPVWGETDTSFEAGIKVQIHSQEPPIIDQ 248
QY 253 LGLGVSPGYQTFVSCQQQQLSELPPWGDSCSSALNPNVEPEPSPLGSPSPSPPYTL 312
Db 249 LGFGVAPGQTFVACQEQRI-YLPPPWGTCATVMDSDP-----FDSYSI 292
QY 313 MGCRLACETRYVARKGCGRMVMPGVPCSPQQYKNCAPHAIDAIRKDS--CACPNPC 370
Db 293 TACRIDCETRYLVENCRCRMVMPGDPACTPEQYKCADPALDVLKQDQYCVCEMPC 352
QY 371 ASTRYAKELSMVPIPSRAARFLAKLRSEYIAENVLADIFREALNYETVECKAYE 430
Db 353 NLTRYKELSMVKIPSKASAKYLAKFNKSEQYIGENILVLDFEVLNYETIEOKKAYE 412
QY 431 MSELLGDIGQMGFLFGASILLITLILDYLCV 463
Db 413 IAGLGDIGQMGFLFGASILLITLILDYLCV 445
RESULT 13
US-09-772-180A-8
Sequence 8, Application US/09772180A
Publication No. US20030027749A1
GENERAL INFORMATION:
APPLICANT: David C. Harrison
APPLICANT: John Davis
APPLICANT: Sharon Bingham
APPLICANT: Trudy R. Doe
APPLICANT: Simon Topp
TITLE OF INVENTION: NOVEL COMPOUNDS
CURRENT APPLICATION NUMBER: US/09/772,180A
CURRENT FILING DATE: 2001-01-29
PRIOR APPLICATION NUMBER: 09/063,848
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 9708936.1
PRIOR FILING DATE: 1997-05-01
PRIOR APPLICATION NUMBER: 97310289.0
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 9803566.0
PRIOR FILING DATE: 1998-02-19
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 8
LENGTH: 539
TYPE: PRT
ORGANISM: HOMO SAPIENS
US-09-772-180A-8

Query Match: 41.4%; Score 1180; DB 10; Length 539;
Best Local Similarity 49.8%; Pred. No. 1.1e-99;
Matches 247; Conservative 58; Mismatches 161; Indels 30; Gaps 9;

QY 14 PSDIRVFASNCNMHGLGHVFGSGSLRRGMWAAAVLSVATFLYQVAERVYRYPFHQ 73
Db 39 PDLATFASSTLHGLGRACGPGHGLRRTLWALALLTSLAFLYQAAAGLARGYLTRHL 98
QY 74 TALDERESHRLV-FPAVTLNINPLRSLTNDL-HWAGSALLGLDPAEHAFLRALGR 131
Db 99 VAMDPAAPAVAGFPVATLCNINRFRHSALSADIFHLAN--LTGLPPKDRDGHRAAGLR 156
QY 132 PRAPPQFMPSPTFDMAQLYARAGHSLDDMLDCRFQPCGPNFTTIFTRMKCYTFNS 191
Db 157 YPEP-----DMVDILNRTGHQLADMLKSCNFSGHCSASNFVVTYRGKCYTFN- 206
QY 192 GADCAELLITTRGCMGNGLDMLDVQOEYLPVWRNEETPFVGVIRVQIHSQEPPIIDQ 251
Db 207 -ADPRSLPSRAGMGSGLEIMLDIQOEYLPVWRNEETPFVGVIRVQIHSQEPPIIDQ 265

QY 252 QLGSGVSPGYQTFVSCQOQLSELPFPWGDSSASLNPYEPSPDLGSPSPSPPYT 311
Db 266 QLGFGVSPGFTFVSCQOQLTFLPQWGNCRAS-----ELREPELQGYSAVS 314
QY 312 LMGCLACETRYVARKCGCMVMPGDVFCVSCQOYKNCAPDAI--LRKDSACPNP 369
Db 315 VSACRLCEKEAVLQRCHECMVMPGNETICPNYIECADHTLDSLGGGPEGPCFCTP 374
QY 370 CASTRYAKELSMVRIPRAAARFLARKLNSEAVIAENVLALDIFFEALNYETVEOKKAY 429
Db 375 CNLTRYKEISWVRIPNRSARYLARKYNENYIENFLVDVFEALTSEAMEGAAAY 434
QY 430 EMSELLDGGQGLFTIGASLLTILBILDYLCVFRDKVGLVFWNQHSHSSTNLLQE 489
Db 435 GLSALLDGLGQGLFTIGASLLTILBILDYIYEVSWDR-LKRWRRPKPLATSTGGIST 493
QY 490 -GLGSHRTQVPHLSLG 504
Db 494 LGLQELKEQSPCPSLG 509

RESULT 14

US-10-295-027-290
; Sequence 290, Application US/10295027
; Publication No. US20030232350A1
; GENERAL INFORMATION:
; APPLICANT: Afar, Daniel
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsberg, Wendy M.
; APPLICANT: Gish, Kurt C.
; APPLICANT: Glynn, Richard
; APPLICANT: Hevezi, Peter A.
; APPLICANT: Mack, David H.
; APPLICANT: Murray, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: Eos Biotechnology, Inc.
; TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
; TITLE OF INVENTION: Methods of Screening for Modulators of Cancer
; FILE REFERENCE: 018501-012500US
; CURRENT APPLICATION NUMBER: US/10/295,027
; CURRENT FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: US 09/663,733
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/350,666
; PRIOR FILING DATE: 2001-11-13
; PRIOR APPLICATION NUMBER: US 60/335,394
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/332,464
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US 60/334,393
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: US 60/340,376
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US 60/347,211
; PRIOR FILING DATE: 2002-01-08
; PRIOR APPLICATION NUMBER: US 60/347,349
; PRIOR FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: US 60/355,250
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: US 60/356,714
; PRIOR FILING DATE: 2002-02-13
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1386
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 290
; LENGTH: 539
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-295-027-290

Query Match 41.4%; Score 1180; DB 15; Length 539;
Best Local Similarity 49.8%; Pred.No. 1.1e-99;
Matches 247; Conservative 58; Mismatches 161; Indels 30; Gaps 9;

QY 14 PSDIRVFASNCMHGLGHVFGPGLSLRRGMAAAVLSVATFLYQVAERVYREFHHQ 73
Db 39 PRDLATFASTSTLHGLGRACGPGHGLRITLWALLTSLAAFLYQAGLARGYLTPHL 98
QY 74 TALDERESHRLV-FPAVTLNINFLRESRLTPNDL-HWAGSALIGLDPAEHAAFLRALGR 131
Db 99 VAMPAPAPAVAGPANTLCNINFRHSALSDADIFHLAN--ITGLPPKDDRDGHRAGLR 156
QY 132 PPAPPGFWPSTTFMAOYARAGHSLLDDMLDCRFQOCPGCPENFTTIFTRMGKCYTFS 191
Db 157 YFEP-----DMVDILNRTGHLADMLKSCNFSGHHCASNFSVWYTRYCKYTFN- 206
QY 192 GADCAELLTTTRGGMGNGLDMLDVQOEYLPWDRNEETPFVGRVQVHSEEPPIID 251
Db 207 -ADPRSLPRAAGMGSLMILDIQOEYLPWDRNETSFAGIRVQVHSEEPPIYH 265
QY 252 QLGSGVSPGYQTFVSCQOQLSELPFPWGDSSASLNPYEPSPDLGSPSPSPPYT 311
Db 266 QLGFGVSPGFTFVSCQOQLTFLPQWGNCRAS-----ELREPELQGYSAVS 314
QY 312 LMGCLACETRYVARKCGCMVMPGDVFCVSCQOYKNCAPDAI--LRKDSACPNP 369
Db 315 VSACRLCEKEAVLQRCHECMVMPGNETICPNYIECADHTLDSLGGGPEGPCFCTP 374
QY 370 CASTRYAKELSMVRIPRAAARFLARKLNSEAVIAENVLALDIFFEALNYETVEOKKAY 429
Db 375 CNLTRYKEISWVRIPNRSARYLARKYNENYIENFLVDVFEALTSEAMEGAAAY 434
QY 430 EMSELLDGGQGLFTIGASLLTILBILDYLCVFRDKVGLVFWNQHSHSSTNLLQE 489
Db 435 GLSALLDGLGQGLFTIGASLLTILBILDYIYEVSWDR-LKRWRRPKPLATSTGGIST 493
QY 490 -GLGSHRTQVPHLSLG 504
Db 494 LGLQELKEQSPCPSLG 509

RESULT 15

US-09-772-180A-2
; Sequence 2, Application US/09772180A
; Publication No. US20030027749A1
; GENERAL INFORMATION:
; APPLICANT: David C. Harrison
; APPLICANT: John Davis
; APPLICANT: Sharon Bingham
; APPLICANT: Trudy R. Doe
; APPLICANT: Simon Topp
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GH-30021-CI
; CURRENT APPLICATION NUMBER: US/09/772,180A
; CURRENT FILING DATE: 2001-01-29
; PRIOR APPLICATION NUMBER: 09/063,848
; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 9708936.1
; PRIOR FILING DATE: 1997-05-01
; PRIOR APPLICATION NUMBER: 97310289.0
; PRIOR FILING DATE: 1997-12-18
; PRIOR APPLICATION NUMBER: 9803566.0
; PRIOR FILING DATE: 1998-02-19
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 539
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
US-09-772-180A-2

Query Match 41.2%; Score 1175; DB 10; Length 539;
Best Local Similarity 49.6%; Pred.No. 3e-99;
Matches 246; Conservative 58; Mismatches 162; Indels 30; Gaps 9;

QY 14 PSDIRVFASNCMHGLGHVFGPGLSLRRGMAAAVLSVATFLYQVAERVYREFHHQ 73

Db 39 PROLATPASTTSLHGLGRACGPHGLRRTLWALALLTSLAFLYQAAAGPARGYLTRHL 98
Qy 74 TALDERESHV-FPAVTLNINFLRRSLTPNDL-HWAGSALIGLDPAEHAFLRALGR 131
Db 99 VANDPAPAPVAGFPVATLNCINRPHSALSADADIFHLAN--LTGLPPKDRDGHRAAGLR 156
Qy 132 PPAPPGFMSPTDMAQLVARAGHSLLDDMLDCRFRGQPCGPENFTTIFTRMGKCYTPNS 191
Db 157 YPEP-----DMVDILNRTGHQADMLKSCNFSGHCSASNFVVYTRYGKCYTEN- 206
Qy 192 GADGAELLTTTRGGMGGLDMLDVQOEBYLPWVRDNEETPEVGIRVQIHSQEBPPIID 251
Db 207 -ADPRSLPSRACGMSGLEIMLDIQOEBYLPWVRDNEETPEVGIRVQIHSQEBPPIIH 265
Qy 252 QLGGLVSPGYQTQVSCQOOLSLPPPWGDCSSASLNPVPEPSPDPLGSPSPSPSPPYT 311
Db 266 QLGFGVSPGYQTQVSCQOOLSLPPPWGDCSSASLNPVPEPSPDPLGSPSPSPSPPYT 314
Qy 312 LMSCRLACETRYVARKCGRWVMPGDVPVCSPOQVNCNCAHPAIDAI--LRKDSACACNP 369
Db 315 VSACRLRCEKEAVLQRCHEWVMPGNETICPENYIECADHTLDSLGGGEGPCFCPTP 374
Qy 370 CASTRYAKELSMVRIPSRAAARFLARKLNRSAYIAENVLADIFPEALNYETVQKAY 429
Db 375 CNLTRYKETSVMVRIPNRSARYLARKYNRETYIRENFLVDVFFEALTSEAMEQRAAY 434
Qy 430 EMSLELDIGGOMGLFTIGASLTLEILDYLCVEFEDKVLGYFVNRQHSQRHSSTNLQOE 489
Db 435 GLSALLGDLGGOMGLFTIGASLTLEILDYLYEVSWDR-LKRVNRPKTPTLTSTGGIST 493
Qy 490 -GLGSHRTQVPHLSLG 504
Db 494 LGLQELKEQSPQCSRG 509

Search completed: August 25, 2004, 13:11:47
Job time : 131 secs

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OM protein - protein search, using sw model

Run on: August 25, 2004, 12:49:58 ; Search time 33 Seconds
(without alignments)
830.709 Million cell updates/sec

Title: US-09-530-233-2
Perfect score: 2851
Sequence: 1 MKPSGPEARRQPSDIRVF.....CAVTKTLSASHTCYLVTQL 531

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2_6/prodata/2/iaa/5A-COMB.pep: *
2: /cgn2_6/prodata/2/iaa/5B-COMB.pep: *
3: /cgn2_6/prodata/2/iaa/6A-COMB.pep: *
4: /cgn2_6/prodata/2/iaa/6B-COMB.pep: *
5: /cgn2_6/prodata/2/iaa/PCUTUS-COMB.pep: *
6: /cgn2_6/prodata/2/iaa/backfiles1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2833	99.4	531	3	US-09-360-197-14
2	2447	85.8	533	3	US-09-360-197-10
3	1365	47.9	512	2	US-08-828-596-2
4	1365	47.9	512	3	US-09-360-197-6
5	1337	46.9	559	3	US-09-360-197-8
6	1329	46.6	526	3	US-09-360-197-2
7	1319	46.3	514	3	US-09-360-197-4
8	1249.5	43.8	563	3	US-09-360-197-12
9	1180	41.4	539	4	US-09-518-959-8
10	1174	41.2	539	4	US-09-518-959-9
11	419	14.7	625	3	US-09-360-197-15
12	418.5	14.7	698	1	US-08-376-362A-20
13	403	14.1	564	3	US-09-360-197-16
14	342.5	12.0	493	6	5196333-4
15	341.5	12.0	755	3	US-07-861-458C-99
16	338.5	11.9	753	3	US-07-861-458C-98
17	320	11.2	520	3	US-07-861-458C-100
18	249	8.7	294	6	5196333-2
19	139	4.9	97	6	5196333-9
20	127	4.5	173	6	5196333-6
21	117	4.1	67	6	5196333-10
22	106.5	3.7	653	4	US-09-543-681A-4450
23	103	3.6	1739	4	US-09-576-594-76
24	101.5	3.6	1037	4	US-09-252-991A-17886
25	100.5	3.5	2476	2	US-08-276-967-2
26	98	3.4	40	3	US-07-861-458C-118
27	98	3.4	659	4	US-09-562-737-20

28	97.5	3.4	1051	4	US-09-428-711A-14	Sequence 14, Appl
29	97	3.4	73	6	5196333-5	Patent No. 5196333
30	93.5	3.3	422	3	US-08-790-186A-4	Sequence 4, Appl
31	93.5	3.3	247	4	US-09-252-991A-26899	Sequence 26899, A
32	93.5	3.3	301	4	US-09-489-039A-7272	Sequence 7272, Ap
33	93.5	3.3	415	4	US-08-601-132-41	Sequence 41, Appl
34	93.5	3.3	415	4	US-08-671-573B-41	Sequence 41, Appl
35	93.5	3.3	582	4	US-09-428-711A-2	Sequence 2, Appl
36	93	3.3	711	4	US-09-402-214-17	Sequence 17, Appl
37	92.5	3.2	415	3	US-08-795-430-11	Sequence 11, Appl
38	92.5	3.2	415	4	US-09-355-700-11	Sequence 11, Appl
39	92	3.2	692	4	US-09-252-991A-26724	Sequence 26724, A
40	91.5	3.2	543	4	US-09-535-008-63	Sequence 63, Appl
41	91.5	3.2	577	4	US-09-535-008-61	Sequence 61, Appl
42	91.5	3.2	1646	4	US-09-535-008-67	Sequence 67, Appl
43	91.5	3.2	1647	4	US-09-535-008-2	Sequence 2, Appl
44	91.5	3.2	1649	4	US-09-535-008-75	Sequence 75, Appl
45	91.5	3.2	1650	4	US-09-535-008-71	Sequence 71, Appl

ALIGNMENTS

RESULT 1

US-09-360-197-14

; Sequence 14, Application US/09360197

; Patent No. 6287859

; GENERAL INFORMATION:

; APPLICANT: Bassilana, Frederic

; APPLICANT: Lazdunski, Michel

; APPLICANT: Waldmann, Rainer

; APPLICANT: Deweille, Jan R.

; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive

; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications

; FILE REFERENCE: 989.6786P

; CURRENT APPLICATION NUMBER: US/09/360,197

; CURRENT FILING DATE: 1997-07-23

; PRIOR APPLICATION NUMBER: 09/129,758

; PRIOR FILING DATE: 1998-08-05

; PRIOR APPLICATION NUMBER: 60/095,408

; PRIOR FILING DATE: 1998-08-05

; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: Patent in Ver. 2.1

; SEQ ID NO 14

; LENGTH: 531

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-360-197-14

Query Match 99.4%; Score 2833; DB 3; Length 531;

Best Local Similarity 99.2%; Pred. No. 1.5e-273;

Matches 527; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MKPSGPEEARQPSDIRVFASNCNMGHGVFGPSLSLRGWWAAAVLSVATFLYQV 60

Db 1 MKPSGPEEARQPSDIRVFASNCNMGHGVFGPSLSLRGWWAAAVLSVATFLYQV 60

Qy 61 AERYVYREFPHQTALDERESHRLIPPAVTLNINPLRSRLTPNDLHWAGSALLGLDPA 120

Db 61 AERYVYREFPHQTALDERESHRLIPPAVTLNINPLRSRLTPNDLHWAGSALLGLDPA 120

Qy 121 EHAFLALGEPAPPGFNFSPFDNAQLYARAGHSDDMLDCRFGQPCGSENFITF 180

Db 121 EHAFLALGEPAPPGFNFSPFDNAQLYARAGHSDDMLDCRFGQPCGSENFITF 180

Qy 181 TRMGKCYTFNSGADGAELLTTTRGGMGNGLDMLDVQOEYLPVWRDNEETPEVGIRVQ 240

Db 181 TRMGKCYTFNSGADGAELLTTTRGGMGNGLDMLDVQOEYLPVWRDNEETPEVGIRVQ 240

Qy 241 IHSQEEPPIDQLGLGVSPGVQTFVSCQQQLSFLPPWGDCCSASLNPNYEPSPDLG 300

Db 241 IHSQEEPPIDQLGLGVSPGVQTFVSCQQQLSFLPPWGDCCSASLNPNYEPSPDLG 300

QY 301 SPSPSPSPYTLTGCRACETRYVARKCGCRVMYMPDGVPCSPQOYKNCAPDAIDAILR 360
 DB 301 SPSPSPSPYTLTGCRACETRYVARKCGCRVMYMPDGVPCSPQOYKNCAPDAIDAILR 360
 QY 361 KDSACBNCASRYAKELSWRIPSRARFLARKLNSEAYIAENVLALDIFFEALNY 420
 DB 361 KDSACBNCASRYAKELSWRIPSRARFLARKLNSEAYIAENVLALDIFFEALNY 420
 QY 421 ETVEQKAYEMSELLGDIQGMGLFGASLLTILEILDYLCVFRDKVLGYFWNQHQR 480
 DB 421 ETVEQKAYEMSELLGDIQGMGLFGASLLTILEILDYLCVFRDKVLGYFWNQHQR 480
 QY 481 HSSTNLLOEGLSHRTQVPHLSLGRPPPTPPCAVTKLSASHRTCYLVTL 531
 DB 481 HSSTNLLOEGLSHRTQVPHLSLGRPPPTPPCAVTKLSASHRTCYLVTL 531
 RESULT 2
 US-09-360-197-10
 ; Sequence 10, Application US/09360197
 ; Patent No. 6287859
 ; GENERAL INFORMATION:
 ; APPLICANT: Bassilana, Frederic
 ; APPLICANT: Lazdunski, Michel
 ; APPLICANT: Waldmann, Rainer
 ; APPLICANT: Deweille, Jan R.
 ; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
 ; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications
 ; FILE REFERENCE: 989.6706P
 ; CURRENT APPLICATION NUMBER: US/09/360,197
 ; CURRENT FILING DATE: 1997-07-23
 ; PRIOR APPLICATION NUMBER: 09/129,758
 ; PRIOR FILING DATE: 1998-08-05
 ; PRIOR APPLICATION NUMBER: 607,095,408
 ; PRIOR FILING DATE: 1998-08-05
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: Patent in Ver. 2.1
 ; SEQ ID NO 10
 ; TYPE: PRT
 ; LENGTH: 533
 ; ORGANISM: rattus sp.
 US-09-360-197-10

Query Match 85.8%; Score 2447; DB 3; Length 533;
 Best Local Similarity 83.5%; Pred. No. 4.6e-235;
 Matches 445; Conservative 49; Mismatches 37; Indels 2; Gaps 2;
 QY 1 MKPTSCPEA-RQPSDIRVFASNCMHGLGHVFGPSLSLRGMAAAVLSVATFLYQ 59
 DB 1 MKPRGLEBAQRQASDIRVFASNCMTMGLGHVFGPSLSLRGMAAAVLSVATFLYQ 60
 QY 60 VAERVYRPFHQALDERESHRLVFPVATLCNINPLRRSLTNDLHWAGSALLGLDP 119
 DB 61 VAERVYRPFHQALDERESHRLVFPVATLCNINPLRRSLTNDLHWAGSALLGLDP 120
 QY 120 AHAAPFLRALGRPPAPGMPSPPTDMAQLYARAGHSLDDMLDCRFQPCGPFNTTI 179
 DB 121 AHAAPFLRALGRPPAPGMPSPPTDMAQLYARAGHSLDDMLDCRFQPCGPFNTTI 180
 QY 180 FTRMGKCYTFNSGADGAELTTTTRGGMGNGLDMLDVQOEYLPVWRDNBETPFEVGIR 239
 DB 181 FTRMGKCYTFNSGADGAELTTTTRGGMGNGLDMLDVQOEYLPVWRDNBETPFEVGIR 240
 QY 240 QIHSQDEPPIIDQLGLVSPGYQTFVSCQOQLSFLPPFWGDCSSASLNP-NYRPEPSDP 298
 DB 241 QIHSQDEPPIIDQLGLVSPGYQTFVSCQOQLSFLPPFWGDCSSASLNP-NYRPEPSDP 300
 QY 299 LGSBSPSPYTLTGCRACETRYVARKCGCRVMYMPDGVPCSPQOYKNCAPDAIDAI 358
 DB 301 LGSBSPSPYTLTGCRACETRYVARKCGCRVMYMPDGVPCSPQOYKNCAPDAIDAI 360
 QY 359 LRKDSACBNCASRYAKELSWRIPSRARFLARKLNSEAYIAENVLALDIFFEAL 418

DB 361 LRKDTVCNPNPCATTRYAKELSMVRIPSRASARYLARKYNRSSEYITENVLIDIFFEAL 420
 QY 419 NYETVEQKAYEMSELLGDIQGMGLFGASLLTILEILDYLCVFRDKVLGYFWNQHQR 478
 DB 421 NYEAVEQKAYEYSELLGDIQGMGLFGASLLTILEILDYLCVFRDKVLGYFWNRSR 480
 QY 479 QRHSSTNLLOEGLSHRTQVPHLSLGRPPPTPPCAVTKLSASHRTCYLVTL 531
 DB 481 QRHSSTNLLOEGLSHRTQVPHLSLGRPPPTPPCAVTKLSASHRTCYLVTL 533
 RESULT 3
 US-08-828-596-2
 ; Sequence 2, Application US/08828596
 ; Patent No. 5892018
 ; GENERAL INFORMATION:
 ; APPLICANT: Welsh, Michael J.
 ; APPLICANT: Price, Margaret P.
 ; TITLE OF INVENTION: No. 5892018el Brain Sodium Channel Protein Family
 ; TITLE OF INVENTION: and DNA Sequences Encoding Same
 ; NUMBER OF SEQUENCES: 5
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Zarley, McKee, Thomte, Voorhees & Sease
 ; STREET: 801 Grand Suite 3200
 ; CITY: Des Moines
 ; STATE: Iowa
 ; COUNTRY: United States
 ; ZIP: 50309
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent in Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/828,596
 ; FILING DATE:
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/626,838
 ; FILING DATE: 02-APR-1996
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Nebel, Heidi S.
 ; REGISTRATION NUMBER: 37,719
 ; REFERENCE/DOCKET NUMBER: uiff n6-53
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 515-288-3667
 ; TELEFAX: 515-288-1338
 ; INFORMATION FOR SEQ ID NO: 2:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 512 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-08-828-596-2

Query Match 47.9%; Score 1365; DB 2; Length 512;
 Best Local Similarity 50.6%; Pred. No. 3.1e-127;
 Matches 255; Conservative 83; Mismatches 140; Indels 26; Gaps 5;
 QY 7 PEERARQPSDIRVFASNCMHGLGHVFGPSLSLRGMAAAVLSVATFLYQVAVRY 66
 DB 7 PSEGSQPSIQIFANTTIRHGRHIFVYGPUIIRVLWAVAFVSLGLULLVSESSVY 66
 QY 67 YRFHHQTALDERESHRLVFPVATLCNINPLRRSLTNDLHWAGSALLGLD-----PAE 121
 DB 67 YFSYQVTKVDEVAQSLVFPVATLCNINPLRRSLTNDLHWAGSALLGLDVLQIDP 126
 QY 122 HAA---FLALGRPPAPGMPSPPTDMAQLYARAGHSLDDMLDCRFQPCGPFNTTI 178
 DB 127 HLAAPSVLEALQKANKFKYKPK-QFSMLFHLRVGHDLKMMLYCKPKGQECGQDFTT 185
 QY 179 IFTRMGKCYTFNSGADGAELTTTTRGGMGNGLDMLDVQOEYLPVWRDNBETPFEVGIR 238

Db 186 VFTKYGCYFNFGEDGKPLLTIVKGGTNGLEIMLDIQDDEYLPWIGTETETTPAAGVK 245
 Qy 239 VQIHSQEPPIIDOLGLGVSPGYQTVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPDP 298
 Db 246 VQIHSQEPPIIDOLGLGVSPGYQTVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPDP 298
 Qy 299 LGSPSPSPPYTLMGCRACETRYVARCKGRVMYMGDVVSCQQOQKNCAPDAIDAI 358
 Db 299 -----FPVYSITACRIDCETRYIVENCNCRVMHMPGDAPFCTPEQHKCEAPALGL 350
 Qy 359 LRKDS--CACPNPCASTRYAKELSMVRIPSRAAARFLARKLNRSSEAYIAENVLADIEFE 416
 Db 351 AEKDSNYCLCTPCNITRYNKELSMVKIPSKTSYAKLEKFNKSEKYSSENLVLDIEFE 410
 Qy 417 ALMYETVEQKAYEMSELIDIGGOMGLFIGASLLTILILDYLCVFRDKVLGYFWMRQ 476
 Db 411 ALMYETVEQKAYEMSELIDIGGOMGLFIGASLLTILILDYLCVFRDKVLGYFWMRQ 476
 Qy 477 HSQRHSTNLLQGLGSHRTQVPH 500
 Db 471 DEGSHDENVSTCDTNPNSHSETISH 494

RESULT 4

US-09-360-197-6
 ; Sequence 6, Application US/09360197
 ; Patent No. 6287859
 ; GENERAL INFORMATION:
 ; APPLICANT: Bassilana, Frederic
 ; APPLICANT: Lazdunski, Michel
 ; APPLICANT: Waldmann, Rainer
 ; APPLICANT: Deweille, Jan R.
 ; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
 ; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications
 ; FILE REFERENCE: 989.6706P
 ; CURRENT APPLICATION NUMBER: US/09/360,197
 ; CURRENT FILING DATE: 1997-07-23
 ; PRIOR FILING DATE: 1998-08-05
 ; PRIOR APPLICATION NUMBER: 60/095,408
 ; PRIOR FILING DATE: 1998-08-05
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 6
 ; LENGTH: 512
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-360-197-6

Query Match 47.9%; Score 1365; DB 3; Length 512;
 Best Local Similarity 50.6%; Pred. No. 3.1e-127;
 Matches 255; Conservative 83; Mismatches 140; Indels 26; Gaps 5;
 Qy 7 PEARQPSDIRVFASNCMHGVLGHVFGSGSLRRGMWAAVLSVATFYQVAERVY 66
 Db 7 PSEGLQPSSTIQIFANTSTLHGIRHFVYCGPLTIRVLWAVAFVSGLLVSESSRSY 66
 Qy 67 YRFHHQTLDERESHRLVFPATLCNINPLRRSLTENDLHWAGSALLGLD-----PAE 121
 Db 67 YFSYQVHTKYDEVVAVASLVFPATLCNINLNGFSPRLTNDLHWAGSALLGLD-----PAE 126
 Qy 122 HAA---FLRALGRPPAPPMPSPFTFMAQLYARAGHSLLDMLDCRFRGQPCGPNFTT 178
 Db 127 HLADPSVLEALROKANKFKYKPK-QFSMLEFLHRVGHDLKDWMLYCKFGQECGQDFTT 185
 Qy 179 IFRMGKCYTFNSGADGAELTTTRGCMGNGLDMLDVOQEEYLPWRDNEETPEVGIR 238
 Db 186 VFTKYGCYFNFGEDGKPLLTIVKGGTNGLEIMLDIQDDEYLPWIGTETETTPAAGVK 245
 Qy 239 VQIHSQEPPIIDOLGLGVSPGYQTVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPDP 298
 Db 246 VQIHSQEPPIIDOLGLGVSPGYQTVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPDP 298

Qy 299 LGSPSPSPPYTLMGCRACETRYVARCKGRVMYMGDVVSCQQOQKNCAPDAIDAI 358
 Db 299 -----FPVYSITACRIDCETRYIVENCNCRVMHMPGDAPFCTPEQHKCEAPALGL 350
 Qy 359 LRKDS--CACPNPCASTRYAKELSMVRIPSRAAARFLARKLNRSSEAYIAENVLADIEFE 416
 Db 351 AEKDSNYCLCTPCNITRYNKELSMVKIPSKTSYAKLEKFNKSEKYSSENLVLDIEFE 410
 Qy 417 ALMYETVEQKAYEMSELIDIGGOMGLFIGASLLTILILDYLCVFRDKVLGYFWMRQ 476
 Db 411 ALMYETVEQKAYEMSELIDIGGOMGLFIGASLLTILILDYLCVFRDKVLGYFWMRQ 476
 Qy 477 HSQRHSTNLLQGLGSHRTQVPH 500
 Db 471 DEGSHDENVSTCDTNPNSHSETISH 494

RESULT 5

US-09-360-197-8
 ; Sequence 8, Application US/09360197
 ; Patent No. 6287859
 ; GENERAL INFORMATION:
 ; APPLICANT: Bassilana, Frederic
 ; APPLICANT: Lazdunski, Michel
 ; APPLICANT: Waldmann, Rainer
 ; APPLICANT: Deweille, Jan R.
 ; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
 ; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications
 ; FILE REFERENCE: 989.6706P
 ; CURRENT APPLICATION NUMBER: US/09/360,197
 ; CURRENT FILING DATE: 1997-07-23
 ; PRIOR FILING DATE: 1998-08-05
 ; PRIOR APPLICATION NUMBER: 60/095,408
 ; PRIOR FILING DATE: 1998-08-05
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 8
 ; LENGTH: 559
 ; TYPE: PRT
 ; ORGANISM: rattus sp.
 US-09-360-197-8

Query Match 46.9%; Score 1337; DB 3; Length 559;
 Best Local Similarity 49.6%; Pred. No. 2.2e-124;
 Matches 256; Conservative 82; Mismatches 142; Indels 34; Gaps 7;
 Qy 1 MKPTSGPEEARQPSDIRVFASNCMHGVLGHVFGSGSLRRGMWAAVLSVATFYQV 60
 Db 47 MEAGSELDEGDDSPDLVAFANSCTFHGASHVFEVGGPGPQALWAVAFVIALGALCQV 106
 Qy 61 AERVYRFFHQTALDERESHRLVFPATLCNINPLRRSLTENDLHWAGSALLGLDPA 120
 Db 107 GDRVAYLYSPHVTULDEVAATTELVPATVFCNTNAVELSOLSPDLLYL-APMLGDES 165
 Qy 121 EHAALFRLALGRPPAPPMPSPFTFMAQLYARAGHSLLDMLDCRFRGQPCGPNFTTIF 180
 Db 166 DDGQVFLA---PPGPEAFSGEP-FNLHRYNRSCHRELDMLLYCSYCGPCGPHNFSVP 221
 Qy 181 TRMGKCYTFNSGADGAELTTTRGCMGNGLDMLDVOQEEYLPWRDNEETPEVGIRVQ 240
 Db 222 TRYKCYTTFNSQDGRPLKTKMGOTGNGLEIMLDIQDDEYLPWIGTETETTPAAGVK 281
 Qy 241 IHSQEBPPPIIDOLGLGVSPGYQTVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPDPLG 300
 Db 282 IHSQEBPPPIIDOLGLGVSPGYQTVSCQQOQLSFLPPWGDGSSASLNPNYBEPSPDPLG 332
 Qy 301 SPSPSPSPPYTLMGCRACETRYVARCKGRVMYMGDVVSCQQOQKNCAPDAIDAI 360
 Db 333 -----FDSYSTACRIDCETRYIVENCNCRVMHMPGDAPFCTPEQHKCEAPALDPLVE 386
 Qy 361 KDS--CACPNPCASTRYAKELSMVRIPSRAAARFLARKLNRSSEAYIAENVLADIEFEAL 418

Db 387 KQOEYCVCEMPCNLTRYKELSMVKIPSKASAKYLAKFNKSEQYIGENILVLDIFFEVL 446
 QY 419 NYETVEOKKAYEMSELLDGGOMGLFISGLSLTILEILDYLCVPRDKVLGYFVNRQHS 478
 Db 447 NYETIEOKKAYEYIAGLGLDGGOMGLFISGLSLTILEILDYLCVPRDKVLGYFVNRQHS 502
 QY 479 QRHSSTNLLQEGLSHRTQVPHLSLGRPPPTPPC 512
 Db 503 QKEAKRSSADKGA-----LSLDDVKRHNPC 528

RESULT 6
 US-09-360-197-2
 ; Sequence 2, Application US/09360197
 ; Patent No. 6287859
 ; GENERAL INFORMATION:
 ; APPLICANT: Bassilana, Frederic
 ; APPLICANT: Lazdunski, Michel
 ; APPLICANT: Waldmann, Rainer
 ; APPLICANT: Deweille, Jan R.
 ; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
 ; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications
 ; FILE REFERENCE: 989.6706P
 ; CURRENT APPLICATION NUMBER: US/09/360,197
 ; CURRENT FILING DATE: 1997-07-23
 ; PRIOR FILING DATE: 1998-08-05
 ; PRIOR FILING DATE: 1998-08-05
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: Patent in Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 526
 ; TYPE: PRT
 ; ORGANISM: rattus sp.
 US-09-360-197-2

Query Match 46.6%; Score 1329; DB 3; Length 526;
 Best Local Similarity 49.5%; Pred. No. 1.3e-123;
 Matches 257; Conservative 79; Mismatches 127; Indels 56; Gaps 8;

QY 13 QPSDIRVFASNCMHGLGHVFGPGSLSRGMWAAVLSVATFLYQVAREVRYREFHH 72
 Db 14 QPVSICAFASSTLHGAHIFSYERLSKRALWALCFGLSLAVLLCVCTERVQYFYCYHH 73
 QY 73 QVALDERSHRLVFPVATLNCINPLRSLTPNDLHWAGS--ALLG----- 116
 Db 74 VTKLDEVAASQLTFPVTLCNLEFRFSQVSKNDLYHAGELLALLNNRYEIPDTQMADEK 133
 QY 117 -LDPAEHAALFRALGRPPAPPGFMSPTFDMQALYARAGHSLDDMLDCRFRGQPCGPN 175
 Db 134 QLEILQDKANFRS-----FKPKP-FNMRFFYDRAGHDIRDMLLSCHFRGACSAED 193
 QY 176 FTITFRMGKCYTFNSGADGAEILLTTTRGGMGNGLDMLDVOQEYLFPWRDNEETPFV 235
 Db 184 FKVWTRYKCYTFNSGQDGRPLTKMGKTGNGLEIMLDIQDEYLPVWAGTDETSFEA 243
 QY 236 GIRVQHSQEBPIIDQLGLGVSPGYQTFVSCQOQLSFLPPPWGDCSSASLNPNVEPEP 295
 Db 244 GIKVQHSQDEPPFIDQLGFGVAPGQTFVSCQORLIYLPSPMGTCNAVMDSDF----- 299
 QY 296 SDPLGSPSPSPPYTLMGCRACETRYVARCKRCRMVMPGDVPGVCSPOQYKNCARPAI 355
 Db 300 -----FDSYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPQYKCECADPAL 348
 QY 356 DAILRKDS--CACPNPCASTRYAKELSMVRIPSAARAFIARKLNRSAYIAENVLADI 413
 Db 349 DFLVEKQOEYCVCEMPCNLTRYKELSMVKIPSKASAKYLAKFNKSEQYIGENILVLDI 408
 QY 414 FFEALNVTETVEOKKAYEMSELLDGGOMGLFISGLSLTILEILDYLCVPRDKVLGYFV 473
 Db 409 FFEVLNVTETVEOKKAYEYIAGLGLDGGOMGLFISGLSLTILEILDYLCVPRDKVLGYFV 464

QY 474 NRHSQRHSSTNLLQEGLSHRTQVPHLSLGRPPPTPPC 512
 Db 465 RRGCKQKEAKRSSADKGA-----LSLDDVKRHNPC 495

RESULT 7
 US-09-360-197-4
 ; Sequence 4, Application US/09360197
 ; Patent No. 6287859
 ; GENERAL INFORMATION:
 ; APPLICANT: Bassilana, Frederic
 ; APPLICANT: Lazdunski, Michel
 ; APPLICANT: Waldmann, Rainer
 ; APPLICANT: Deweille, Jan R.
 ; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
 ; TITLE OF INVENTION: Cationic Channels, Their Cloning and Applications
 ; FILE REFERENCE: 989.6706P
 ; CURRENT APPLICATION NUMBER: US/09/360,197
 ; CURRENT FILING DATE: 1997-07-23
 ; PRIOR FILING DATE: 1998-08-05
 ; PRIOR FILING DATE: 1998-08-05
 ; NUMBER OF SEQ ID NOS: 22
 ; SOFTWARE: Patent in Ver. 2.1
 ; SEQ ID NO 4
 ; LENGTH: 514
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-360-197-4

Query Match 46.3%; Score 1319; DB 3; Length 514;
 Best Local Similarity 49.2%; Pred. No. 1.2e-122;
 Matches 255; Conservative 80; Mismatches 129; Indels 54; Gaps 8;

QY 14 PSDIRVFASNCMHGLGHVFGPGSLSRGMWAAVLSVATFLYQVAREVRYREFHHQ 73
 Db 1 PVSICAFASSTLHGAHIFSYERLSKRALWALCFGLSLAVLLCVCTERVQYFYHYHV 60
 QY 74 TALDERSHRLVFPVATLNCINPLRSLTPNDLHWAGS--ALLG----- 116
 Db 61 TKLDEVAASQLTFPVTLCNLEFRFSQVSKNDLYHAGELLALLNNRYEIPDTQMADEKQ 120
 QY 117 LDPAEHAALFRALGRPPAPPGFMSPTFDMQALYARAGHSLDDMLDCRFRGQPCGPNF 176
 Db 121 LEILQDKANFRS-----FKPKP-FNMRFFYDRAGHDIRDMLLSCHFRGVCSAEDF 170
 QY 177 TTITFRMGKCYTFNSGADGAEILLTTTRGGMGNGLDMLDVOQEYLFPWRDNEETPFV 236
 Db 171 KVVFTFRMGKCYTFNSGNGRPLTKMGKTGNGLEIMLDIQDEYLPVWAGTDETSFEAG 230
 QY 237 IRVQHSQEBPIIDQLGLGVSPGYQTFVSCQOQLSFLPPPWGDCSSASLNPNVEPEPS 296
 Db 231 IRVQHSQDEPPFIDQLGFGVAPGQTFVACQORLIYLPSPMGTCNAVMDSDLDFFDS 290
 QY 297 DPLGSPSPSPPYTLMGCRACETRYVARCKRCRMVMPGDVPGVCSPOQYKNCARPAID 356
 Db 291 -----YSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPQYKCECADPALD 337
 QY 357 AILRKDS--CACPNPCASTRYAKELSMVRIPSAARAFIARKLNRSAYIAENVLADI 414
 Db 338 FLVEKQOEYCVCEMPCNLTRYKELSMVKIPSKASAKYLAKFNKSEQYIGENILVLDIF 397
 QY 415 FFEALNVTETVEOKKAYEMSELLDGGOMGLFISGLSLTILEILDYLCVPRDKVLGYFV 474
 Db 398 FFEVLNVTETVEOKKAYEYIAGLGLDGGOMGLFISGLSLTILEILDYLCVPRDKVLGYFV 474
 QY 475 RQHSQRHSSTNLLQEGLSHRTQVPHLSLGRPPPTPPC 512
 Db 454 RRGCKQKEAKRSSADKGA-----LSLDDVKRHNPC 483

RESULT 8

```
US-09-360-197-12
; Sequence 12, Application US/09360197
; Patent No. 6287859
; GENERAL INFORMATION:
; APPLICANT: Basilana, Frederic
; APPLICANT: Lazdunski, Michel
; APPLICANT: Waldmann, Rainer
; APPLICANT: Deweille, Jan K.
; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
; FILE OF INVENTION: Cationic Channels, Their Cloning and Applications
; FILE REFERENCE: 989.6706P
; CURRENT APPLICATION NUMBER: US/09/360,197
; CURRENT FILING DATE: 1997-07-23
; PRIOR APPLICATION NUMBER: 09/129,758
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/095,408
; PRIOR FILING DATE: 1998-08-05
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 563
; TYPE: PRT
; ORGANISM: rattus sp.
US-09-360-197-12

Query Match 43.8%; Score 1249.5; DB 3; Length 563;
Best Local Similarity 47.5%; Pred. No. 1.2e-115;
Matches 245; Conservative 79; Mismatches 151; Indels 41; Gaps 8;

QY 6 GPEARR-QPSDTRVFASNCMSGLGHV-----FGPSLSLRGMAAAVLSVATFLVQV 60
DQ 50 GPGVARGRFS-----LSRTKLHGLRMCAGRTAAGSFORRALWLAFTSLGLLWS 104
QY 61 AERYVYREHHQHTALDERESHLRVPVAVTLNINPLRSRLTPNDLHWAGSALLGLOPA 120
DQ 105 SNRLLYLWSPSHFRVREWSRQLPFAVTVCCNNPLRPLRSKGLYVAGHWGLLEN 164
QY 121 EHA-AFIRALGRPPAPG-----FMPSPFTD--MAQLYARAGSLDMLDQCF 166
DQ 165 RTAPLVSELLRDEPRQRWRKLADFLPLPRHFEGISAAPMDRLHQLEDMLLSCKY 224
QY 167 RGQCGPENFTTIFTRMGKYTFNSGADGAELTTTRGGMGNGLDMLDVQOEYLPVNR 226
DQ 225 RGLCGPHNFSSVFTKYKCYMFNSGDBGXPLTTVKGTGNGLEIMLDIQODEYLPWG 284
QY 227 DNESTPEVIRVOIHSQOEPPIDQLGLVSPGYOTFVSCQQOQLSFLPPWGCSSAS 286
DQ 285 ETEETPEAGVKVQIHSQSEPPFIQELGFGVAPGPTFVATQERLTLYLPPWGCSSSE 344
QY 287 LNPVYEPSPDLGSPSPSPVPTLMGCRACETRYVARKCGCRVMVMPGVPCSPQ 346
DQ 345 MGLDF-----FPVYSITACRIDCETRYIVENCNCRVMVMPGDAPCTPEQ 389
QY 347 YKCAHFAIDAILRKDS--CACPNPCASTRYAKELSMWRIPSPAAARFLARKNRSAYI 404
DQ 390 HKECAEFALGLAEKDSNYLCRTPCNLITRYNKLXSVKIPSKTSKAKLEKPNSEKI 449
QY 405 AENVLALDIFFEALNYETVEQKAYEMSELLGIGGOMGLFICASLTILEILDYLCVF 464
DQ 450 SENILVLDIFFEALNYETIEQKAYEVAALLGIGGOMGLFICASLTILELFDYIELI 509
QY 465 RDVGLGFVWNRQHSQRSSNLLQEGLSGSHRTQUPH 500
DQ 510 KEKLLDLGLKBEESGSHDENNSTCDTNPNSHSETISH 545

RESULT 9
US-09-518-959-8
; Sequence 8, Application US/09518959
; Patent No. 6548270
; GENERAL INFORMATION:
; APPLICANT: Dublin, Adrienne E
; APPLICANT: Erlander, Mark G
US-09-518-959-9
; Sequence 9, Application US/09518959
; Patent No. 6548270
; GENERAL INFORMATION:
; APPLICANT: Dublin, Adrienne E
; APPLICANT: Erlander, Mark G
; APPLICANT: Huvar, Rene
; APPLICANT: Pyati, Jayashree
; TITLE OF INVENTION: DNA encoding human acid-sensing ion
; FILE REFERENCE: ORT-1197
; CURRENT APPLICATION NUMBER: US/09/518,959
; CURRENT FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9

Query Match 41.4%; Score 1180; DB 4; Length 539;
Best Local Similarity 49.8%; Pred. No. 9.4e-109;
Matches 247; Conservative 58; Mismatches 161; Indels 30; Gaps 9;

QY 14 PSDIRVFASNCMSHGLGHVFGPSLSLRGMAAAVLSVATFLVQVARYVREFHHQ 73
DQ 39 PRDLATFASTLHGLGRACGPGPHGLRRTLWALLTSLAAFLYQAAGLAGYLTRPHL 98
QY 74 TALDERESHLV-FPAVTLNINPLRSRLTPNDL-HWAGSALLGLDPAEHAFLRALGR 131
DQ 99 VAMPDPAAPAVAGFPVAVTLNINPLRSRLTPNDL-HWAGSALLGLDPAEHAFLRALGR 156
QY 132 PRAPPGFMPSPPTFDMAQLYARAGHSDMLDCRFRGQCGPENFTTIFTRMGKYTFNS 191
DQ 157 YPEP-----DMVDILNRTGHQOLADMKSCNFSGHCSASNSFVYTRYGKCYTEN- 206
QY 192 GAGCAELTTTRGGMGNGLDMLDVQOEYLPVNRDNEETPEVIRVOIHSQOEPPID 251
DQ 207 -ADPRSLPSRAGMGSGLEIMLDIQOEYLPVNRDNEETPEVIRVOIHSQOEPPYIH 265
QY 252 QLGLGVSPGYOTFVSCQQOQLSFLPPWGCSSASINPNYEPEDPLGSPSPSPVPT 311
DQ 266 QLGFVSPGYOTFVSCQEQLTYLPQWGNCRAS-----ELREPELOQYSAYS 314
QY 312 LMGCRLACETRYVARKCGCRVMVMPGVPCSPQOYKCAHFAIDAI--LRKDSACACNP 369
DQ 315 VSACRLRCEKEAVLQRCRVMVMPGNETICPPNIYIECADHTLDSLGGGPEGPCFCPT 374
QY 370 CASTRYAKELSMWRIPSPAAARFLARKNRSAYIAENVLALDIFFEALNYETVEQKAY 429
DQ 375 CNITRYKELSMWRIPSPAAARFLARKNRSAYIAENVLALDIFFEALNYETVEQKAY 434
QY 430 EMBELGIDGIGOMGLFICASLTILEILDYLCVEFRDKVLGVFWNRQHSQRSSNLLQ 489
DQ 435 GLSALLDGLGOMGLFICASLTILEILDYLYVEVSWDR-LKRVWRRPKTPLRTSTGGIST 493
QY 490 -GLGSHRTQVPHLSLG 504
DQ 494 LGLQELKEQSPCPSLG 509

RESULT 10
US-09-518-959-9
; Sequence 9, Application US/09518959
; Patent No. 6548270
; GENERAL INFORMATION:
; APPLICANT: Dublin, Adrienne E
; APPLICANT: Erlander, Mark G
; APPLICANT: Huvar, Rene
; APPLICANT: Pyati, Jayashree
; TITLE OF INVENTION: DNA encoding human acid-sensing ion
; FILE REFERENCE: ORT-1197
; CURRENT APPLICATION NUMBER: US/09/518,959
; CURRENT FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
```

```

; LENGTH: 539
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-518-959-9

Query Match      41.2%; Score 1174; DB 4; Length 539;
Best Local Similarity 49.6%; Pred. No. 3.7e-108;
Matches 246; Conservative 58; Mismatches 162; Indels 30; Gaps 9;

QY 14 PSDIRVFASNCMHGLGHVFGPGSLRRGMWAAAVLSVATFLYQVAERVRYRPHHQ 73
Db 39 PRDIATFASTSTLHGLGRACGPHGLRRLTALALLTSLAAFLYQAAGLARGYLTRPHL 98
QY 74 TALDERESHRLV-FPAVTLTCLNINPLRRSLTPNDL-HWAGSALLGLDPAEHAFLPALGR 131
Db 99 VAMDPAPAPVAGFPVATLCLNINPLRRSALSADADIFELAN-LTGPPKDRDGRHRAAGLR 156
QY 132 PPAPPGFMPSTPDMAGLYARAGHSDDMLDCRFQPCGPGENFTTIFTRMGKCYTFNS 191
Db 157 YPEP-----DMVDILNRTGHQADMLKSCNFSGHCHCSASFVSVVYTRYCKCYTEN- 206
QY 192 GADGAELLATTRCGMGNGLDIMLDVQOEYLPVWRDNEETPREVGIRVOIHQOEPPHID 251
Db 207 -APRSSLPSRAGMSGLEIMLDIOOEYLPWRDNEETPREVGIRVOIHQOEPPHID 265
QY 252 QLGIVSPGYQTVSCQQOQLSELPPPWGDCSSASLNPNYEPEPSDPLGSPSPSPPYT 311
Db 266 QLGFGVSPGFQTVSCQOQLTYLPQPGNCRAES-----ELREPELQGSAYS 314
QY 312 LMGCRCLACETRYVARKCGRWYMPGDVPCSPQYKNCAPHAIDAI--LRKDSACACNP 369
Db 315 VSAACRLRCKEAVLQRCHECHWMPGNETICPNYIECADHTLSDLGSGPGPCFCPTP 374
QY 370 CASTRYAKELSMVRIPSRARARFLARKLNRSAYIAENVIALDIFFEALNVEYVQKXAY 429
Db 375 CNLTRYKEISMVRIPNRSARYLARKYNENYIRENFLVDVFEALTSEMEQRAY 434
QY* 430 EENSELDGTGGQGLFISALITLLEILDYLCVFRDKVLGVFWNRQHSQHSSTNLLOE 489
Db 435 GUSALLDGLGGQGLFISALITLLEILDYIYEVSWDR-LKRVWRPRPTLRTSTGGIST 493
QY 490 -GLGSHRTQVPHLSLG 504
Db 494 LGLQELKEQSPCPSRG 509

RESULT 11
US-09-360-197-15
; Sequence 15, Application US/09360197
; Patent No. 6287859
; GENERAL INFORMATION:
; APPLICANT: Bassilana, Frederic
; APPLICANT: Lazdunski, Michel
; APPLICANT: Waldmann, Rainer
; APPLICANT: Deweille, Jan R.
; TITLE OF INVENTION: Human and Rat Families of Neuronal Acid-Sensitive
; FILE REFERENCE: 999.6706P
; CURRENT APPLICATION NUMBER: US/09/360,197
; CURRENT FILING DATE: 1997-07-23
; PRIOR APPLICATION NUMBER: 09/129,758
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: 60/095,408
; PRIOR FILING DATE: 1998-08-05
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 625
; TYPE: PRT
; ORGANISM: Helix aspersa
US-09-360-197-15

Query Match      14.7%; Score 419; DB 3; Length 625;

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Best Local Similarity 22.2%; Pred. No. 8.6e-33;
Matches 136; Conservative 99; Mismatches 191; Indels 186; Gaps 20;

QY 17 IRVFASNCMHGLGHVFGPGSLRRGMWAAAVLSVATFLYQVAERVRYRPHHQ 76
Db 43 IAEGLSSENAHGLAKIVTSRD-TKRKVINALLVIAGTAATLQLSLVRKYLQFQVVELS 101
QY 77 DERESHRLVFPVATLCLNINP-----LRR-----SRJTPNDLHWAGSALLGLDPAEHAFLRA 128
Db 102 EIKDSMPVQVPSVSGICNIEPISLTIIRMYFNESQNLITWL--RFTQKRFQDSFMS 159
QY 129 LGRPPAPGFMPSPTF--DMAQLVARAGHSDDMLDCRFQPCGPGENFTTIFT-RMGK 185
Db 160 I-----RAFVENLQDQAKLSHNLEDMHCFRENELCHVSNFSTFDDGNYFN 207
QY 186 CYTNSGADGAELLATTRCGMGNGLDIMLDVQOEYLP-----VMRDNEETPREVGIRVOI 241
Db 208 CFTNSG-----QRLQMHATGPNGLSLIFSVKDDPLPGTYGVYVFNFDNNILHSAGVRVV 263
QY 242 HSQEEPIIDQLGLGVSPGYQTVSCQQOQLSELPPPWGDCSSASLN--PNYEPEPSDPL 299
Db 264 HPGSMSPVDHGLDIPPGYSSVGLKAILHTLPLYPYGNCTNDMLNGIKQYK----- 316
QY 300 GSPSPSPSPPYTLMGCRCLACETRYVARKCGRWYMPGDV-----SRAARFLARKLNSEAYIA----- 405
Db 317 -----YTFACQLQCKQRLIIRCGCKSSALP-EVPSYNATFCGVIKDQWQINEN 365
QY 341 -----VCSPOQYKNCAPHAIDAILRKD-----SCACPNPCASTR 374
Db 366 HSNEDHNSQSEDRAFIPTPYLACEEREQN-----LNNDRTYELSCGCFQPCSETS 416
QY 375 YAKELSMVRIP-----SRAARFLARKLNSEAYIA----- 405
Db 417 YLKSLSYWPFLFYQLSAVERFFKQERQGNHFKTAYEYLEKLAHESQHLANDSH 476
QY 406 -----ENVALDIFFEALNVEYVQKXAYEMSELLDGG 440
Db 477 MDDILSKSYLSSEKEMAKEASDLIRQNLRLNLYLEDLSWEVYQLPAYGLADLFADIGG 536
QY 441 QMGLFTGASLLTLELDYLCVFRDKVLGVFWNRQ-----HSQRHS 482
Db 537 TIGLWNGISVLTIMELIELVI-----RUTGLVFNSEKGLPRGPTTVNNNGSNHSQ-ST 590
QY 483 STNLLQELGSH 494
Db 591 SQHLYNGYMDH 602

RESULT 12
US-08-376-362A-20
; Sequence 20, Application US/08376362A
; Patent No. 5693756
; GENERAL INFORMATION:
; APPLICANT: Li, Xiao-Jiang
; APPLICANT: Blackshaw, Seth
; APPLICANT: Snyder, Solomon H.
; TITLE OF INVENTION: AMILORIDE-SENSITIVE SODIUM CHANNEL AND
; METHOD OF INVENTION: METHOD OF IDENTIFYING SUBSTANCES WHICH STIMULATE OR BLOCK
; TITLE OF INVENTION: SALTY TASTE PERCEPTION
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Allegretti, LTD
; STREET: 1001 G Street, N.W., Eleventh Floor
; CITY: Washington
; STATE: D.C.
; COUNTRY: U.S.A.
; ZIP: 20001-4597
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

```


;; TITLE OF INVENTION: DNA SEQUENCES INVOLVED IN NEURONAL
DEGENERATION, MULTICELLULAR ORGANISMS CONTAINING SAME AND USES
THEREOF

;; NUMBER OF SEQUENCES: 11

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/07/530,968

;; FILING DATE: 30-MAY-1990

;; SEQ ID NO:4:

;; LENGTH: 493

5196333-4

Query Match 12.0%; Score 342.5; DB 6; Length 493;
Best Local Similarity 27.2%; Pred. No. 2.5e-25;
Matches 106; Conservative 59; Mismatches 135; Indels 91; Gaps 14;

QY 114 LLGLDPAEHAALRALGRPPAPPGFMPSPPTFDVA-----OLYARAGHSLDD----- 159
Db 115 LQGTPTEDPNFLEAMG-----FCGMDTDEVAIVTKAKENIMFANATLSMQDRERLST 166

QY 160 ----MLDCFRQPCGPN--FTTIFTRMGKCYTFNSGADGAELITTTTRGGMGGLDIM 213
Db 167 TKRELHKCSFNGKACDIDAEFLTHIDPAFGSCFTFNH--NRTVALTSIRAGPMYGLRML 224

QY 214 LDVQOEYLPVWRDNEETPEVGIRVQIHSQBEPPIIDQLGLGVSPGYOTFVSCQQOQLS 273
Db 225 VYVNASDYM-----TTEATGVRLTIHDKEDFPDFTFGYSAPTGYVSSFGRLRRMS 277

QY 274 FLPPPMGDC-----SSASLNPNVEPPSPDPLGSPSPSPPTLGMCRCLACETRYVARKC 328
Db 278 RLPAVGDVDPDGKTSYVSNVE-----YSVEGCVRSCEFQQLVLEK 320

QY 329 GCRVWMPGDVFCVSPQOQYKNCNCHPAIDAILRK--DS-----CACPNPCAST 373
Db 321 RC-----GDPFPVPEGARHCA--DAADPIARKCLDARNMDLGLHGSFRRCQQPCRS 372

QY 374 RYAKELSMVRIPSR-----AARFLARKLNSEAVIAENVLALDIFFEALNVEVTEQKK 427
Db 373 IYSVTYSYPAKWPSLSLQIOLGSCNGTAVECNK---HYKENGAMVEVFEQLNFEMLTSE 429

QY 428 AYEMSELLDGGQMGFLFTGASLLTLEIL 457
Db 430 AYGFVNLLADFGQLGWLWCGISFLTCCEV 459

RESULT 15

US-07-861-458C-99

;; Sequence 99, Application US/07861458C

;; Patent No. 6232061

;; GENERAL INFORMATION:

;; APPLICANT: Marchionni, Mark Andrew

;; APPLICANT: Johnson, Carl D.

;; TITLE OF INVENTION: HOMOLOGY CLONING

;; NUMBER OF SEQUENCES: 142

;; CORRESPONDENCE ADDRESS:

;; ADDRESSEE: Fish & Richardson

;; STREET: 225 Franklin Street

;; CITY: Boston

;; STATE: Massachusetts

;; COUNTRY: U.S.A.

;; ZIP: 02110-2804

;; COMPUTER READABLE FORM:

;; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb

;; COMPUTER: IBM PS/2 Model 502 or 55SX

;; OPERATING SYSTEM: MS-DOS (Version 5.0)

;; SOFTWARE: Wordperfect (Version 5.1)

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/07/861,458C

;; FILING DATE: 04/01/92

;; CLASSIFICATION: 435

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER:

;; FILING DATE:

;; ATTORNEY/AGENT INFORMATION:

;; NAME: Clark, Paul T.
;; REGISTRATION NUMBER: 30,162
;; REFERENCE/DOCKET NUMBER: 04585/014001

;; TELECOMMUNICATION INFORMATION:

;; TELEPHONE: (617) 542-5070

;; TELEFAX: (617) 542-8906

;; TELEX: 200154

;; INFORMATION FOR SEQ ID NO: 99:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 755

;; TYPE: amino acid

;; TOPOLOGY: linear

US-07-861-458C-99

Query Match 12.0%; Score 341.5; DB 3; Length 755;
Best Local Similarity 26.9%; Pred. No. 6.1e-25;
Matches 105; Conservative 61; Mismatches 133; Indels 91; Gaps 14;

QY 114 LLGLDPAEHAALRALGRPPAPPGFMPSPPTFDVA-----OLYARAGHSLDD----- 159
Db 377 LQGTPTEDPNFLEAMG-----FCGMDTDEVAIVTKAKENIMFANATLSMQDRERLST 428

QY 160 ----MLDCFRQPC--GPNFTTIFTRMGKCYTFNSGADGAELITTTTRGGMGGLDIM 213
Db 429 TKRELHKCSFNGKACDIDAEFLTHIDPVFGSCFTFNH--NRTAILTSIRAGPMYGLRML 486

QY 214 LDVQOEYLPVWRDNEETPEVGIRVQIHSQBEPPIIDQLGLGVSPGYOTFVSCQQOQLS 273
Db 487 VYVNASDYM-----TTEATGVRLTIHDKEDFPDFTFGYSAPTGYVSSFGRLRRMS 539

QY 274 FLPPPMGDC-----SSASLNPNVEPPSPDPLGSPSPSPPTLGMCRCLACETRYVARKC 328
Db 540 RLPAVGDVDPDGKTSYVSNVE-----YSVEGCVRSCEFQQLVLEK 582

QY 329 GCRVWMPGDVFCVSPQOQYKNCNCHPAIDAILRKDSCA-----CPNPCAST 373
Db 583 RC-----GDPFPVPEGARHCA--PA-DPVARRSLDARNMDLGLHGSFRYRCQQPCQS 634

QY 374 RYAKELSMVRIPSR-----AARFLARKLNSEAVIAENVLALDIFFEALNVEVTEQKK 427
Db 635 IYSVTYSYPAKWPSLSLQIOLGSCNGTAVECNK---HYKENGAMVEVFEQLNFEMLTSE 691

QY 428 AYEMSELLDGGQMGFLFTGASLLTLEIL 457
Db 692 AYGFVNLLADFGQLGWLWCGISFLTCCEV 721

Search completed: August 25, 2004, 13:01:25

Job time : 36 secs